



Name: _____ Date: _____ Group: _____

GUIDED PRACTICE

Helium Atoms

1. State in your own words the characteristics of the types of subatomic particles.

2. Explain the electrical charge a helium atom holds.

3. Does the helium atom hold an overall charge?

4. Where do you locate the mass of a helium atom?

GUIDED PRACTICE

Helium Atoms, continued

Graphic Organizer: Use the terms in the word bank to complete the graphic organizer below.

Word Bank

neutrons	particles	e-	atoms	electron cloud
p+	nucleus	protons	neutral	electrons

All matter is composed of

↓

1. _____

↓

subatomic

↓

2. _____

←

3. _____

↓

located in

↓

6. _____

↓

electrical charge
is positive

↓

9. _____

↓

4. _____

↓

located in nucleus

↓

electrical charge is

↓

7. _____

→

5. _____

↓

located in

↓

8. _____

↓

electrical charge
is negative

↓

10. _____

1 1A		2 2A		3 3B		4 4B	5 5B	6 6B	7 7B	8 8B	9	10	Name						
1	H Hydrogen	2	He Helium	3	Li Lithium	4	Be Beryllium	5	B Boron	6	C Carbon	7	N Nitrogen	8	O Oxygen	9	F Fluorine	10	Ne Neon
11	Na Sodium	12	Mg Magnesium	13	Al Aluminum	14	Si Silicon	15	P Phosphorus	16	S Sulfur	17	Cl Chlorine	18	Ar Argon	19	K Potassium	20	Ca Calcium
21	Sc Scandium	22	Ti Titanium	23	V Vanadium	24	Cr Chromium	25	Mn Manganese	26	Fe Iron	27	Co Cobalt	28	Ni Nickel	29	Cu Copper	30	Zn Zinc
31	Ga Gallium	32	Ge Germanium	33	As Arsenic	34	Se Selenium	35	Br Bromine	36	Kr Krypton	37	Rb Rubidium	38	Sr Strontium	39	Y Yttrium	40	Zr Zirconium
41	Nb Niobium	42	Mo Molybdenum	43	Tc Technetium	44	Ru Ruthenium	45	Rh Rhodium	46	Pd Palladium	47	Ag Silver	48	Cd Cadmium	49	In Indium	50	Sn Tin
51	Sb Antimony	52	Te Tellurium	53	I Iodine	54	Xe Xenon	55	Cs Cesium	56	Ba Barium	57	La Lanthanum	58	Ce Cerium	59	Pr Praseodymium	60	Nd Neodymium
61	Pm Promethium	62	Sm Samarium	63	Eu Europium	64	Gd Gadolinium	65	Tb Terbium	66	Dy Dysprosium	67	Ho Holmium	68	Er Erbium	69	Tm Thulium	70	Yb Ytterbium
71	Lu Lutetium	72	Hf Hafnium	73	Ta Tantalum	74	W Tungsten	75	Re Rhenium	76	Os Osmium	77	Ir Iridium	78	Pt Platinum	79	Au Gold	80	Hg Mercury
81	Tl Thallium	82	Pb Lead	83	Bi Bismuth	84	Po Polonium	85	At Astatine	86	Rn Radon	87	Fr Francium	88	Ra Radium	89	Ac Actinium	90	Th Thorium
91	Pa Protactinium	92	U Uranium	93	Np Neptunium	94	Pu Plutonium	95	Am Americium	96	Cm Curium	97	Bk Berkelium	98	Cf Californium	99	Es Einsteinium	100	Fm Fermium
101	Md Mendelevium	102	No Nobelium	103	Lr Lawrencium	104	Rf Rutherfordium	105	Db Dubnium	106	Sg Seaborgium	107	Bh Bohrium	108	Hs Hassium	109	Mt Meitnerium	110	Ds Darmstadtium
111	Rg Roentgenium	112	Cn Copernicium	113	Nh Nihonium	114	Fl Flerovium	115	Mc Moscovium	116	Lv Livermorium	117	Ts Tennessine	118	Og Oganesson	119	Uu Ununennium	120	Uub Unbibium